

## Exhibit A

>gb|AAB39007.1| **G** transmembrane protein Jagged 1 [Homo sapiens]  
Length=1218

GENE ID: 182 JAG1 | jagged 1 (Alagille syndrome) [Homo sapiens]  
(Over 10 PubMed links)

Score = 741 bits (1914), Expect = 0.0  
Identities = 353/353 (100%), Positives = 353/353 (100%), Gaps = 0/353 (0%)

Query 1	MGSVIPDGAKWDDDCNTQCCLNGRIACSKVWCGRPCCLLHKGHSECPSGQSCIPILDDQC	60
Sbjct 866	MGSVIPDGAKWDDDCNTQCCLNGRIACSKVWCGRPCCLLHKGHSECPSGQSCIPILDDQC	925
Query 61	FVHPCTGVGECRSSLQPVTKCTSDSYQQDNCANITFTFNKEEMSPGLTTEHICSELRN	120
Sbjct 926	FVHPCTGVGECRSSLQPVTKCTSDSYQQDNCANITFTFNKEEMSPGLTTEHICSELRN	985
Query 121	LNILKVNSAEYISIYIACEPPSANNENIHLVAISAEDIRDDGNPIKEITDKIIDLVSKRDGN	180
Sbjct 986	LNILKVNSAEYISIYIACEPPSANNENIHLVAISAEDIRDDGNPIKEITDKIIDLVSKRDGN	1045
Query 181	SSLIAAVAEVRVQRRLPKNRIDFLVPLLSVLTVAWICCLVTAFYWCLRKRRKPGSHTHS	240
Sbjct 1046	SSLIAAVAEVRVQRRLPKNRIDFLVPLLSVLTVAWICCLVTAFYWCLRKRRKPGSHTHS	1105
Query 241	ASEDNTTNNVREQLNQIKNPIEKHGANTVPIKDYENKNSKMSKIRTHNSEVEEDDMDKHQ	300
Sbjct 1106	ASEDNTTNNVREQLNQIKNPIEKHGANTVPIKDYENKNSKMSKIRTHNSEVEEDDMDKHQ	1165
Query 301	QKARFAKQPAYTLDREEKPPNGTPTKHPNWTNKQDNRLESAQSLNRMNEYIV	353
Sbjct 1166	QKARFAKQPAYTLDREEKPPNGTPTKHPNWTNKQDNRLESAQSLNRMNEYIV	1218